**REDACTED VERSION** 

PLM SOIL SAMPLING ANALYTICAL RESULTS NOV 3 - DEC 9, 1997

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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Amanda Looney **Ecology & Environment** 11550 New Castle Avenue Baton Rouge LA 70816

Monday November 03 1997

Ref Number IN971521

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

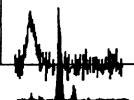
LOCATION b) (6)	APPEARANCE	SAMPLE TREATMENT	% TYPE	0/			
b) (6)			,, III-L	%	<i>FIBROUS</i>	%	NONFIBROUS
	Brown	Crushed	3% Chrysotile		20.000	40%	Quartz
	Non Fibrous Homogeneous		1% Crocidolite			56%	Other
	Brown	Crushed	3% Chrysotile			40%	Quartz
	Non Fibrous Homogeneous		1% Crocidolite			56%	Other
	Brown	Crushed	2% Chrysotile			40%	Quartz
	Non Fibrous Homogeneous		< 1% Crocidolite				Other
	Brown	Crushed	< 1% Chrysotile			40%	Quartz
	Non Fibrous Homogeneous		< 1% Crocidolite			60%	Other
	Brown	Crushed	3% Chrysotile			40%	Quartz
	Non Fibrous Homogeneous		1% Crocidolite			56%	Other
	Brown	Crushed	3% Chrysotile				Quartz
	Non Fibrous Homogeneous		1% Crocidolite			56%	Other
		Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous	Brown Crushed  Non Fibrous Homogeneous  Brown Crushed Non Fibrous Homogeneous  Brown Crushed Non Fibrous Homogeneous  Brown Crushed Non Fibrous Homogeneous  Crushed Crushed Non Fibrous Homogeneous  Crushed Non Fibrous	Brown Non Fibrous Homogeneous  Brown Crushed 2% Chrysotile 1% Crocidolite  Brown Crushed 2% Chrysotile < 1% Crocidolite  Brown Crushed < 1% Chrysotile < 1% Crocidolite  Crushed Non Fibrous Homogeneous  Crushed 3% Chrysotile < 1% Crocidolite  Brown Crushed 3% Chrysotile 1% Crocidolite  Crushed 3% Chrysotile 1% Crocidolite	Brown Crushed 3% Chrysotile 1% Crocidolite  Brown Crushed 2% Chrysotile Non Fibrous Homogeneous  Crushed < 1% Crocidolite  Brown Crushed < 1% Chrysotile < 1% Crocidolite  Crushed Non Fibrous Homogeneous  Crushed 3% Chrysotile 1% Crocidolite  Brown Crushed 3% Chrysotile 1% Crocidolite  Brown Crushed 3% Chrysotile 1% Crocidolite  Crushed 3% Chrysotile 1% Crocidolite	Brown Non Fibrous Homogeneous  Brown Crushed C	Brown   Crushed   3% Chrysotile   40%   1% Crocidolite   56%

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

ane Wasılewskı Analyst

Approved Signatory



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#### **Project WESTBANK ASBESTOS**

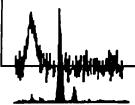
			SAMPLE	ASBE.	<u>stos</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROU
WBS1390G09	(b) (6)	Brown	Crushed	20% Chr	ysotile			40%	Quartz
		Non Fibrous		5% Cro	cidolite			35%	Other
		Homogeneous							
WBS1390G10		Brown	Crushed	< 1% Chr	ysotile			40%	Quartz
		Non Fibrous		< 1% Cro	cidolite			60%	Other
		Homogeneous							
WBS1390G11		Brown	Crushed	20% Chr	ysotile		-	40%	Quartz
		Non Fibrous		5% Cro	cidolite			35%	Other
		Homogeneous							
WBS1390G12		Brown	Crushed	30% Chr	ysotile			40%	Quartz
		Non Fibrous		5% Cro	cidolite			25%	Other
		Homogeneous							
WBS1390G13		Brown	Crushed	3% Chr	ysotile			40%	Quartz
		Non Fibrous		1% Cro	cidolite			56%	Other
		Homogeneous							
WBS1390G14		Brown	Crushed	15% Chr	ysotile			40%	Quartz
		Non Fibrous		2% Croc	cidolite			43%	Other
		Homogeneous							

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### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1505G01	b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	irysotile				Quartz Other
WBS1505G02		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				Quartz Other
WBS400G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cr	-				Quartz Other

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Jane Wasılewskı Analyst Approved Signatory

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Clien	t Ecology	& Environmen	nt		Logged	10/3	30/97			TAT	1 Day			
Addres		ew Castle Aven ouge LA 7081			Date/Time Due	10/3	31/97	9 00						
Fa	x (504) 363	3 - 4732					Spec	ial Har	ndling		В	illing Nu IN971		
Projec	t WESTBA	NK ASBESTOS										11457 10	···	
		Appearance	1. ***	Treatment	Asbestos Result Chrysotile	ılts	Fibro	us	Non F	ibrous		Opti Prope		
1 Brow 2 Grey 3 Tan	n o various 7 Black 8 Silver	2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other	1 Teased 2 Crushed 3 Dissolved	2 Amosite 3 Anthophyllite		Glass Min Wool		2 Mica 3 Gypsum	1	į	Торс	1	
4 White 5 Red	9 Blue 0 Orange		4 Layers (#)	4 Ashed	4 Tremolite 5 Actinolite 6 Crocidolite	5	Synthetic Other Wollastonite	•	4 Cal Carl 5 Matrix 6 Perlite	onate		1 W vy	2	
	*****	1 10			0 None Detected		Hair		7 Other			2 Straight 3 Specify P B	Ε	
	Sample	Location	Appearance	Treatment	% ASBESTO	os	Fibr Type	ous %	Non F	ibrous %	# Layers	1 Yes   Low 2. V 2. Med 3 High	1 Parallel 2 Symmetric 3 Oblique	
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EMSL\_Analytical Inc. 6330 E 75th St. Suite 152 Indianapolis IN 46250

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ddress		lew Castle Aver ouge LA 7081		0	Date/Time Due 10	)/31/97	9 00	AM ———					
Fax		3 - 4732				Spe	cial Har	ndling		8	Billing Nu IN971		
Project	WESTBA	NK ASBESTOS									<del></del>		
		Appearance		Treatment	Asbestos Results	Fibr	ous		Fibrous		Opt		_
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Vanous 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	I Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonit 7 Hair	e	1 Quartz 2 Mica 3 Gypsum 4 Cal Cal 5 Matrix 6 Perlite 7 Other	bonate		Prope	i s	_
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#### **CHAIN OF CUSTODY RECORD**

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EPA 7500-53 (11/96)

Green to Report Yellow Returns with Warrant

6- 08951

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#### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASBESTOS</u>	NONASI	BESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	% FIBROUS	%	NONFIBROUS
WBS1523G01	(b) (6)	Brown	Crushed	< 1% Chrysotile		40%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite		60%	Other
WBS1523G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile			Quartz Other
WBS1390G17		Brown Non Fibrous Homogeneous	Crushed	3% Chrysotile 1% Crocidolite			Quartz Other
WBS1390G18		Brown Non Fibrous Homogeneous	Crushed	20% Chrysotile 5% Crocidolite			Quartz Other
WBS1390G19		Brown Non Fibrous Homogeneous	Crushed	3% Chrysotile 1% Crocidolite			Quartz Other
WBS1390G20		Brown Non Fibrous Homogeneous	Crushed	2% Chrysotile < 1% Crocidolite			Quartz Other

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ane Wasilewski Analyst

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#### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASBESTOS</u>		NONASBESTO:	<u>s</u>
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS %	NONFIBROUS
WBS1390G21	b) (6)	Brown	Crushed	10% Chrysotile		40	% Quartz
		Non Fibrous		2% Crocidolite		48	% Other
		Homogeneous					
WBS1390G22		Brown	Crushed	< 1% Chrysotile		40	% Quartz
		Non Fibrous		< 1% Crocidolite			% Other
		Homogeneous					
WBS1390G23		Brown	Crushed	2% Chrysotile		40	% Quartz
		Non Fibrous		< 1% Crocidolite		58	% Other
		Homogeneous					
WBS1390G24		Brown	Crushed	2% Chrysotile		40	% Quartz
		Non Fibrous		< 1% Crocidolite		58	% Other
		Homogeneous					
WBS1390G25		Brown	Crushed	2% Chrysotile		40	% Quartz
		Non Fibrous		< 1% Crocidolite		58	% Other
		Homogeneous					
WBS1390G26		Brown	Crushed	2% Chrysotile		40	% Quartz
		Non Fibrous		< 1% Crocidolite		58	% Other
		Homogeneous					

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		SAMPLE	<u>ASBE</u>	<u>STOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
(b) (6)	Brown	Crushed	< 1% Chr	ysotile			40%	Quartz
	Non Fibrous		< 1% Cro	cidolite			60%	Other
	Homogeneous							
-	Brown	Crushed	3% Chr	ysotile			40%	Quartz
	Non Fibrous						57%	Other
	Homogeneous							
-	Brown	Crushed	2% Chr	ysotile			40%	Quartz
	Non Fibrous		1	-			58%	Other
	Homogeneous							
-	Brown	Crushed	3% Chr	ysotile			40%	Quartz
	Non Fibrous		1% Cro	cidolite			56%	Other
	Homogeneous							
-	Brown	Crushed	2% Chr	ysotile			40%	Quartz
	Non Fibrous		< 1% Cro	cidolite			58%	Other
	Homogeneous							
	Brown	Crushed	2% Chr	ysotile			40%	Quartz
	Non Fibrous		< 1% Cro	cidolite			58%	Other
	Homogeneous							
	(1)	Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous	Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Crushed  Crushed	Brown Non Fibrous Homogeneous  Brown Crushed	Brown   Crushed   2% Chrysotile   1% Crocidolite   1% C	LOCATION APPEARANCE TREATMENT % TYPE %  Brown	LOCATION   APPEARANCE   TREATMENT   %   TYPE   %   FIBROUS	Brown   Crushed   2% Chrysotile   40%   1% Crocidolite   58%

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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ane Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Amanda Looney **Ecology & Environment** 11550 New Castle Avenue Baton Rouge LA 70816

Monday November 03 1997

Ref Number IN971522

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBE</u> %	STOS TYPE	%	<u>NONASB</u> FIBROUS	<u>ESTOS</u> %	NONFIBROUS
WBS1390G33	o) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Chr < 1% Cro					6 Quartz 6 Other
WBS1390G34		Brown Non Fibrous Homogeneous	Crushed	2% Chr < 1% Cro	=				6 Quartz 6 Other
WBS1390G35		Brown Non Fibrous Homogeneous	Crushed	2% Chr < 1% Cro					6 Quartz 6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

ane Wasılewskı Analyst

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Client	Ecology	& Environmer	nt		Logged	10/3	0/97			TAT	1 Day			
Address		ew Castle Aven uge LA 7081		C	Date/Time Due	10/3	1/97	9 00	AM	<del></del>	1 ——	····		
Fax	(504) 363	- 4732					Spec	ial Har	ndling		В	illing Nu		
Project	WESTBAN	IK ASBESTOS									!		122	
	-	Appearance		Treatment	Asbestos Resu	its	Fibro	us	Non F	brous	1	Opti		-!
1 Brown 2 Grey	6 Various 7 Black	1 Fibrous 2 Non-Fibrous	1 Homogeneous 2 Heterogeneous	1 Teased 2 Crushed	i Chrysotile 2 Amosite		Cellulose Glass		l Quartz 2 Mica			Prope	rties	<u>.</u>
3 Tan 4 White	8 Silver 9 Blue	3 Other	3 Other 4 Layers (#)	3 Dissolved 4 Ashed	3 Anthophyllite 4 Tremolite	3	Min Wool Synthetic		3 Gypsum 4 Cal Carl	honate		'	'	
5 Red	0 Orange		T Layers (#/	7.0.1.00	5 Actinolite 6 Crocidolite	5	Other Wollastonite		5 Matrix 6 Perlite			1 W vy	S	-
<u> </u>					0 None Detected		Hair		7 Other			I W vy 2 Straight 3 Specify		
							Fibr		1	ibrous	# Layers	1 Yes 1 Low 2 No 2 Med 3 High	1 Parallel 2 Symmetric	
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EMSL analytical Inc. 6330 E 75th St. Suite 152 Indianapolis IN 46250

**PLM Analysis Worksheet** Logged 10/30/97 TAT 1 Day **Ecology & Environment** Client 11550 New Castle Avenue Date/Time Due 10/31/97 9 00 AM Address Baton Rouge LA 70816 Special Handling **Billing Number** Fax (504) 363 4732 IN971522 **WESTBANK ASBESTOS** Project Non-Fibrous Appearance Treatment Asbestos Results Fibrous Optical **Properties** 1 Fibrous 2 Non-Fibrous 3 Other Cellulose 6 Various 7 Black 1 Teased Chrysotile Quartz l Homogeneous Glass Min Wool 2 Grey 3 Tan 2 Heterogeneous Crushed Amosite Dissolved Anthophyllite Gypsum Cal Carbonate 8 Silver Other 4 Layers (#) Synthetic 4 White 9 Blue Ashed Tremolite Matrix Actinolite 5 Red 0 Orange Perlite Other Crocidolite Wollastorute Hair 0 None Detected Fibrous Non Fibrous 1 Low 2 Ved 1 High Layers % ASBESTOS Sample Appearance Treatment Type Location Type a 40 154 WBS 1390 623 56 154 40 2 s ړ 624 41 Ε 2 40! 154 4 ð 58 625 2 154 40 41 626 40 1.55 171 くし 60 627 155 40 154 ጋ

Analyst Date 11/03/97 Computer \_\_\_\_\_ Date \_\_\_\_\_

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EMSL Aleabrical Inc. 6330 E 75th St., Suite 152 Indianapolis, IN 46250

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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis, IN 46250

### **CHAIN OF CUSTODY RECORD**

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WB51390		1717									X				6-165487 WITH OF
W 851390 G18											X				6-165487 GRANTUES 6-165488 SAMPUES
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EPA 7500-53 (11/96)

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EPA 7500-53

6- 08949

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Amanda Looney **Ecology & Environment** 11550 New Castle Avenue Baton Rouge LA 70816

Monday November 03 1997

**RECD NOV 1 0 1997** 

Ref Number IN971533

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASBESTOS</u>		NONASB	<u>ESTOS</u>
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	<b>FIBROUS</b>	% NONFIBROU
WBS1482G01	(b) (6)	Brown	Crushed	2% Chrysotile			78% Quartz
		Non Fibrous					20% Other
		Homogeneous					
WBS1482G02		Brown	Crushed	2% Chrysotile			78% Quartz
		Non Fibrous			ļ		20% Other
		Homogeneous					
WBS1071G01		Brown	Crushed	None Detected			80% Quartz
1		Non Fibrous					20% Other
		Homogeneous					
WBS349G01		Brown	Crushed	None Detected			80% Quartz
		Non Fibrous					20% Other
		Homogeneous					
WBS1149G01		Brown	Crushed	< 1% Chrysotile			80% Quartz
		Non Fibrous		< 1% Crocidolite			20% Other
		Homogeneous					
WBS1149G02		Brown	Crushed	< 1% Chrysotile			80% Quartz
		Non Fibrous					20% Other
		Homogeneous			}		

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188 0)

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Amanda Looney
Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Monday November 03 1997

Ref Number IN971533

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

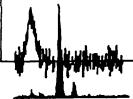
			SAMPLE	ASBES:	<u>ros</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROU
WBS1496G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Chrys < 1% Crock					Quartz Other
WBS1496G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys	otile				Quartz Other
WBS1496G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys	otile				Quartz Other
WBS929G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys					Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



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**CHAIN OF CUSTODY RECORD** PROJECT NAME PROJ NO orana ( Mestbrunk Asbestos RAGI NO SAMPLERS, (Sigfacture) OF hand Mackagin REMARKS CON TAINERS DATE TIME STATION LOCATION STA NO 900 107) GD 1035 WBS1149 GD7 18415BW 1420 MBS140P 1425 1436 GAI Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) 10-30-971700 Relinquished by (Signature) Date / Time Relinquished by (Signature) Received by (Signature) Date / Time Received by (Signature) Date / Time Relinquished by (Signature) Date / Time Remarks Received for Laboratory by (Signature) Shipped by FEOLE Airbill Number 800858286765 Distribution White Accompanies Shipment Pink to Coordinator Field Files Green to Report Yellow Returns with Warrant

EPA 7500-53 (11/96)

6-08947

Client	Ecology &	Environme	nt		Logged	10/3	31/97			TAT	1 Day		1
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Dravagt	MECTRANK	ASBESTOS									1	IN971	533
Project		pearance		Treatment	Asbestos Resi	ilts	Fibro	ous	Non F	brous	- ' ]	Opt	ıcal
1 Brown 2 Grey 3 Tan 4 White	6 Various 7 Black 8 Silver 9 Blue	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysoule 2 Amosite 3 Anthophyllite 4 Tremolite		Cellulose Glass Min Wool Synthetic		1 Quartz 2 Mica 3 Gypsum 4 Cal Car		-	Prop	erties
5 Red	0 Orange				5 Actinolite 6 Crocidolite 0 None Detected		Other Wollastorute		5 Matrix 6 Perlite 7 Other		1	M 1 W vy 2. Straight 3 Specify	1 2
Sa	mple	Location	Appearance	Treatment	% ASBESTO	S	Fıbr Type	ous %	Non F Type	ibrous %	# Layers	1 Yes 1 Low 2 V Med 3 Hugh	1 Persilei 2 Synametric 3 Oblique
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Analyst	Mayautz Phillso	Date	11/3/97	Computer		Date	
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1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Vanous 7 Black 8 Silver 9 Blue 0 Orange	Pearance  I Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	Treatment 1 Teased 2 Crushed 3 Dissolved 4 Ashed	Asbestos Result Chrysotule 2 Amosate 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	i Cel 2 Gla 3 Mir 4 Syn 5 Oth	n Wool nthetic ner ollastonite		Non F  Quartz Mica Gypsum Cal Car Matrix Perlite Other		1		tical erties	
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894

Attn Amanda Looney **Ecology & Environment** 11550 New Castle Avenue Baton Rouge LA 70816

Wednesday November 05 19

Ref Number IN971557

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

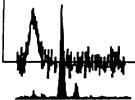
			SAMPLE	<u>ASBESTOS</u>		NONASBI		
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS1297G01	(b) (6)	Brown	Crushed	< 1% Chrysotile				Quartz
		Non Fibrous					60%	Other
		Homogeneous						
WBS1297G02		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous		< 1% Crocidolite			60%	Other
		Homogeneous						
WBS929G02		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous					60%	Other
		Homogeneous						
WBS414G03		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous	1	< 1% Crocidolite			60%	Other
		Homogeneous						
WBS1517G01		Brown	Crushed	None Detected			30%	Quartz
		Non Fibrous					70%	Other
		Homogeneous						
WBS1517G02		Brown	Crushed	2% Chrysotile	1		30%	Quartz
		Non Fibrous					68%	Other
		Homogeneous	I	!	1			

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

ane Wasilewski **Analyst** 

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188 0)

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Attn Amanda Looney

Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Wednesday November 05 19

Ref Number IN971557

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

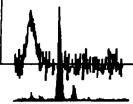
#### **Project WESTBANK ASBESTOS**

		SAMPI F	<u>ASBI</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
0) (6)	Brown	Crushed		=				Quartz
	Non Fibrous Homogeneous		< 1% Cr	ocidolite		_	60%	Other
	Brown	Crushed	< 1% Ch	rysotile		<del></del> -	40%	Quartz
	Non Fibrous		< 1% Cr	ocidolite			60%	Other
	Homogeneous							
	Brown	Crushed	< 1% Ch	rysotile				Quartz
	Non Fibrous Homogeneous		< 1% Cro	ocidolite			60%	Other
	Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
	Non Fibrous Homogeneous						60%	Other
		Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous  Brown Non Fibrous Homogeneous	Brown   Crushed   Brown   Crushed   Brown   Crushed   Brown   Crushed   Non Fibrous   Homogeneous   Brown   Crushed   Non Fibrous   Homogeneous   Crushed	LOCATION APPEARANCE TREATMENT %  Brown Crushed < 1% Check Ch	Brown   Crushed   < 1% Chrysotile   < 1% Crocidolite    Brown   Crushed   < 1% Chrysotile   < 1% Crocidolite    Brown   Crushed   < 1% Chrysotile   < 1% Crocidolite    Brown   Crushed   < 1% Crocidolite    Brown   Crushed   < 1% Chrysotile   < 1% Chrysotile   < 1% Crocidolite    Brown   Crushed   < 1% Chrysotile   < 1% Crocidolite    Brown   Crushed   < 1% Chrysotile   < 1% Crocidolite    Brown   Crushed   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile  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1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1% Chrysotile   < 1%	Brown   Crushed

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

lane Wasılewskı Analyst Approved Signatory



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ENVIR DIMENTAL FROM CHINA

**OFFICIAL CHAIN OF CUSTODY RECORD** PROJECT NAME OZOGO I NO Deens SAMPLERS Asignature OF Magazia. REMARKS lutes CON TAINERS GRAB COM TIME DATE **STATION LOCATION** STA NO 10-31-1005 1010 1150 602 MB51529 17411-5 11-3-9 GOI WBS 1529 X 174 11-3 602 165 1520 X 178 11-3 603 451529 111 11-3 604 W351468 X X 11-397 1548 6-16 5543 601 WKS 1968 K X 1548 6-16 5544 602 WUS1468 X X 1551 6-165545 603 W \$51468 X. 6765546 1555 GOH Min Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) 111.3197 1700 10-31-97 1615 OCA Received by (Signature) Relinquished by (Signature) Date / Time Relinquished by (Signature) Date / Time Received by (Signature) Date / Time Remarks Relinquished by (Signature) Date / Time Received for Laboratory by (Signature) Shipped by Fp d Airbill Number Distribution White Accompanies Shipment Pink to Coordinator Field Files

EPA 7500-53

Green to Report Yellow Returns with Warrant

<sup>6-</sup> 08953

Client	Ecology	& Environmen	it		Logged	11/4	1/97			TAT	1 Day			
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					and the state of t							IN9715	557	
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1 Brown	6 Various	Appearance I Fibrous	1 Homogeneous	Treatment 1 Teased	Asbestos Result Chrysotile		Fibro Cellulose	ous	l Quartz	ibrous	i	Opti Prope		
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non Fibrous 3 Other	2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite		2 Glass 3 Min Wool 4 Synthetic 5 Other 5 Wollastonit		2 Mica 3 Gypsum 4 Cal Carl 5 Matrix	bonate	ı	I W vy	3	<del>-</del>
t			·	J	6 Crocidolite 0 None Detected		7 Hair		6 Perlite 7 Other	<del></del> ,	<del></del>	1 W vy 2 Straight 3 Specify	2 E	
Sar	mple	Location	Appearance	Treatment	% ASBESTO	)S	Fibi Type	rous   %	Non F Type	ibrous %	# Layers	1 Yes   Low 2 Y   2 Med 3 High	1 Parallel 2 Symmetric. 3 Oblique	
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												2-1	/ E	111
Analyst	1	M	Date 4/	es /97	Compu	ter					Date			

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

1 Brown 6 1 2 Grey 7 1 3 Tan 8 5 4 White 9 1	Black 2 Non-Fibrous Silver 3 Other Blue Orange	1 Homogeneous 2 Heterogeneous 3 Other	Treatment 1 Teased 2 Crushed 3 Dissolved 4 Ashed	Asbestos Results  1 Chrysotile 2 Amoste 3 Anthophyline	Fibro	ous	Non F	ibrous		Opti	
	7 Black 8 Silver 9 Blue 0 Orange 2 Non-Fibrous 2 Heteroge 3 Other 4 Layers (#			4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	3 Min Wool 4 Synthetic 5 Other 6 Wollastonit 7 Hair	e	I Quartz 2 Mica 3 Gypsum 4 Cal Carb 5 Matrix 6 Perlite 7 Other	onate	-	V I W vy 2. Straight 3. Specify	erties
		Appearance	Treatment	% ASBESTOS	Fıb.	rous %	Non F	ibrous	# Layers	P B 1 Yes 1 Low 2 N 2 Med 3 H gb	E 1 Parallel 2 Symmetric 3 Obtique
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environment

11550 New Castle Avenue
Baton Rouge LA 70816

Thursday November 06 1997

Ref Number IN971567

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

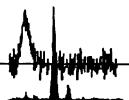
#### Project WESTBANK ASBESTOS 020601 RAG1

			SAMPLE	<u>ASBE</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1529G01	(b) (6)	Brown	Crushed	No	ne Detected			60%	Quartz
		Non Fibrous						40%	Other
		Homogeneous							
WBS1529G02	-	Brown	Crushed	< 1% Ch	rysotile			60%	Quartz
		Non Fibrous						40%	Other
		Homogeneous							
WBS1529G03	-	Brown	Crushed	< 1% Ch	rysotile			60%	Quartz
		Non Fibrous		< 1% Cro	-			40%	Other
		Homogeneous							
WBS1555G01	-	Brown	Crushed	< 1% Ch	rysotile			60%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			40%	Other
		Homogeneous							
WBS1555GO2		Brown	Crushed	< 1% Ch	rysotile			60%	Quartz
		Non Fibrous						40%	Other
<u> </u>		Homogeneous							
WBS1555G03		Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous		< 1% Cro	ocidolite	1		40%	Other
	}	Homogeneous				!			

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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# EMSL Analytical, Inc. Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday November 06 1997

Ref Number IN971567

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

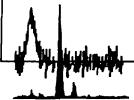
#### Project WESTBANK ASBESTOS 020601 RAG1

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>				
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1555G04	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	No	one Detected				6 Quartz 6 Other
WBS1262GO1		Brown Non Fibrous Homogeneous	Crushed	< 1% CI	nrysotile				6 Quartz 6 Other
WBS1262G02		Brown Non Fibrous Homogeneous	Crushed	2% CI	nrysotile				6 Quartz 6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

áne Wasilewski Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0).

ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL
CHAIN OF CUSTODY RECORD

p-1951

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nple	Location	Appearance	Treatment	% ASBEST	OS T			Layers 2 N 2 Med 2 Symmetric. 3 Hugh 3 Oblique				
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Monday November 10 1997

Ref Number IN971578

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

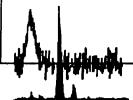
#### **Project WESTBANK ASBESTOS**

			SAMPLE	ASBI	<u>ESTOS</u>				
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1128G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous Homogeneous						60%	Other
WBS1478G01		Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			60%	Other
WBS1478G02		Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			60%	Other
WBS1478G03		Brown	Crushed	2% Ch	rysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			58%	Other
WBS1519G01	-	Brown	Crushed	2% Ch	rysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			58%	Other
WBS1519G02	-	Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous Homogeneous						60%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor titles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Monday November 10 1997

Ref Number IN971578

#### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

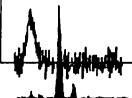
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBE %	STOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS932G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chr	ysotile				Quartz Other
WBS463G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr < 1% Cro	=				Quartz o Other
WBS463G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr					Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jané Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis perfermed by EMSL of Indianapolic (NVLAP Air and Bulk, #200188.0).

**ENVIRONMENTAL PROTECTION AGENCY** 

OFFICIAL

CHAIN OF CUSTODY RECORD

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1 Brown	6 Vanous	l Fibrous	i Homogeneous	Treatment  1 Teased	Asbestos Result Chrysotile	1	Cellulose	us	I Quartz	ibrous	-		Optical opertion			
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other	2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	3 4 5	Glass Min Wool Synthetic Other Wollastonite		2 Mica 3 Gypsum 4 Cal Carl 5 Matrix 6 Perlite	onate		1 W vy 2. Straught		5		
		<del></del>			0 None Detected		Hair		7 Other		#	3 Specify	B	Ē		
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EMSL Analytical Inc. 6330 E 75th St. Suite 152 Indianapolis IN 46250

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Tuesday November 11 1997

Ref Number IN971608

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

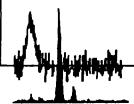
#### **Project WESTBANK ASBESTOS**

			SAMPLE	ASBEST	<u>ros</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1595G01	(b) (6)	Brown	Crushed	< 1% Chrys	otile			40%	Quartz
		Non Fibrous		< 1% Crock	dolite			60%	Other
ı		Homogeneous							
WBS1406G01		Brown	Crushed	< 1% Chrys	otile			40%	Quartz
		Non Fibrous		< 1% Crock				60%	Other
		Homogeneous		1		1			
WBS1406G02	_	Brown	Crushed	< 1% Chrys	otile			40%	Quartz
		Non Fibrous							Other
		Homogeneous				ı			
WBS1406G03		Brown	Crushed	< 1% Chrys	otile	 		40%	Quartz
		Non Fibrous		< 1% Crock	dolite	,		60%	Other
		Homogeneous							
WBS1545G01	·-	Brown	Crushed	< 1% Chrys	otile			40%	Quartz
1		Non Fibrous		< 1% Crock	dolite	1		60%	Other
		Homogeneous							
WBS1545G02		Brown	Crushed	< 1% Chrys	otile			40%	Quartz
		Non Fibrous		< 1% Crocio	dolite			60%	Other
1	1	Homogeneous		1					

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188 0)

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma **Ecology & Environment** 11550 New Castle Avenue Baton Rouge LA 70816

Tuesday November 11 1997

Ref Number IN971608

## POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

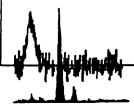
			SAMPLE	ASBEST	<u>os</u>		NONASBE	<u>stos</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1545G03	(b) (6)	Brown	Crushed	< 1% Chryso	tile			40%	Quartz
		Non Fibrous Homogeneous						60%	Other
WBS1254G01		Brown	Crushed	< 1% Chryso	tile			70%	Quartz
		Non Fibrous Homogeneous		< 1% Crocido	olite			30%	Other
WBS1394G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chryso	tile				Quartz Other
WBS1179G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chryso	tile	<b>-</b>	<u> </u>		Quartz Other
WBS1546G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chryson	tile				Quartz Other
WBS1363G01		Brown	Crushed	< 1% Chrysot	tile				Quartz
		Non Fibrous Homogeneous						30%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188.0)

ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL
CHAIN OF CUSTODY RECORD

P9. 7 of 22

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EPA 7500-53 (11/96)

Green to Report Yellow Returns with Warrant

**6**- 0895**6** 

ENVIRONMENTAL IT THE RULE MOTING **OFFICIAL** 

pg. 2 of 2 **CHAIN OF CUSTODY RECORD** PROJECT NAME PROJ NO 020601-RAGI Westbank asbes SAMPLERS (SIGNATURE) NO OF Deena Defalma REMARKS CON **TAINERS** GRAB EPA tag# 6-165568 STA NO DATE TIME STATION LOCATION 1997 MBS1546 11 7 1707 X WBS1363 11-7 6-165572 1722 Deiro Depolm Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Relinquished by (Signature) Date / Time Received by (Signature) Received by (Signature) 11-7-97 Date / Time Relinquished by (Signature) Date / Time Received for Laboratory by Remarks (Signature) 800858286993 Shipped by Airbill Number Distribution White Accompanies Shipment Pink to Coordinator Field Files Green to Report Yellow Returns with Warrant

EPA 7500-53 (11/96)

<del>6-</del> 08957

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		ppearance		Treatment	Asbestos Results	F	brous	Non F	ibrous		Opt	ıcal	
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roject	WESTBAN	NK ASBESTOS									IN971608
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environment

11550 New Castle Avenue
Baton Rouge LA 70816

**REC'D NOV 2 4 1997** 

Thursday November 13 1997

Ref Number IN971648

## POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

			SAMPLE	ASBE	STOS		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1405G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				Quartz Other
WBS1527G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	· <del>-</del>				Quartz Other
WBS1078G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	-				Quartz Other
WBS1341G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	=				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

áne Wasılewskı Analyst Approved
Signatory

H HAMMAN

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## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53 (11/96)

Green to Report Yellow Returns with Warrant

**6**- 0895**8** 

Client	Ecology	& Environme	nt		Logged	11/12/	97			TAT	1 Day			
ddress		lew Castle Ave		D	ate/Time Due	11/13/	97	9 00 AN	<b>VI</b>					
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		Appearance		Treatment	Asbestos Resu	ılts	Fibrou	s	Non F	ibrous		Opt	cal	
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Thursday November 13 1997

Ref Number IN971649

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASBI</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1577G01	b) (6)	Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous						60%	Other
		Homogeneous							
WBS1577G02		Brown	Crushed	< 1% Ch	rysotile			75%	Quartz
1		Non Fibrous						25%	Other
		Homogeneous		1					
WBS1536G01		Brown	Crushed	< 1% Ch	rysotile	1		70%	Quartz
		Non Fibrous						30%	Other
		Homogeneous							
WBS1525G01		Brown	Crushed	No	ne Detected			75%	Quartz
		Non Fibrous						25%	Other
		Homogeneous				•			
WBS1547G01		Brown	Crushed	< 1% Ch	rysotile			75%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			25%	Other
		Homogeneous							
WBS1547G02		Brown	Crushed	2% Ch	rysotile			75%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			23%	Other
		Homogeneous							1

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst

Approved Signatory



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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Thursday November 13 1997

Ref Number IN971649

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1128G02	) (6)	Brown	Crushed	< 1% Ch	rysotile			70%	Quartz
		Non Fibrous						30%	Other
1		Homogeneous	1			İ			
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Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jáne Wasılewskı Analyst

Approved Signatory



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Analysis porformed by EMSL of Indianapolis (NVLAP Air and Bulk #209498.9.)

## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53

6-08959

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Grey Tan White	6 Vanous 7 Black 8 Sulver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	4 Ashed	Asbestos Results  1 Chrysonie 2 Amoste 3 Anthophylite 4 Tremoite 5 Actnolite 6 Crocidolite 0 None Detected	Fibro 1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonit 7 Hair		Non F  1 Quartz 2 Mica 3 Gypsum 4 Cal Carb 5 Matrix 6 Perlite 7 Other			Property V	
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Monday November 17 1997

Ref Number IN971665

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

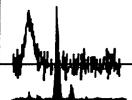
			SAMPLE	<u>ASBESTOS</u>		NONASB.	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1192G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1192G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite				Quartz Other
WBS1192G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite	-			Quartz Other
WBS1192G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1192G05		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1192G06		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0).

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



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Ref Number IN971665

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Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

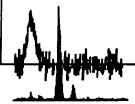
			SAMPLE	<u>ASBE</u>	STOS		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1192G07	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			70%	Quartz
		Non Fibrous						30%	Other
 		Homogeneous							
WBS1192G08		Brown	Crushed	< 1% Ch	rysotile			70%	Quartz
		Non Fibrous						30%	Other
		Homogeneous							
WBS1596G01		Brown	Crushed	2% Ch	rysotile			70%	Quartz
,		Non Fibrous	}	< 1% Cro	cidolite	1		28%	Other
		Homogeneous							
WBS1596G02		Brown	Crushed	4% Ch	rysotile			70%	Quartz
		Non Fibrous		1% Cro	cidolite			25%	Other
		Homogeneous							
WBS1596G03		Brown	Crushed	4% Ch	rysotile	_		70%	Quartz
		Non Fibrous		1% Cro	cidolite			25%	Other
		Homogeneous							
WBS1596G04		Brown	Crushed	4% Ch	rysotile				Quartz
		Non Fibrous		1% Cro	cidolite			25%	Other
		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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## EMSL Analytical, Inc. | Indianapolis, Indiana 46250 | Phone (317) 570-5892 | Fax

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environment

11550 New Castle Avenue
Baton Rouge LA 70816

Monday November 17 1997

Ref Number IN971665

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

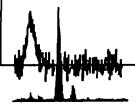
			SAMPLE	<u>ASBI</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1596G05	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Ch < 1% Cr	rysotile ocidolite				Quartz Other
WBS1596G06		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cre	-				Quartz Other
WBS1596G07		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	-				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Fax	(504) 363								IN9716	665
oject		( ASBESTOS pearance		Troatment	Asbestos Results	Fibrous	s Non Fibrous		Opti	
Brown Grey Tan White Red	7 Black 2 Non Fibrous 2 Heterogeneous 2 C 8 Silver 3 Other 3 Other 3 D			3 Dissolved 4 Ashed	1 Chrysoule 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actunolite 6 Crocidolite 0 None Detected	l Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair	1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 15 Matrix 6 Peritte 7 Other		Prope	
Sar	mple	Location	Appearance	Treatment	% ASBESTOS	Fibrou Type	us Non Fibrous % Type %	# Layers	P B 1 \cs. 1 Low 2 \ 2 \text{ \text{Mod}} 3 High	E 1 Parallel 2 Symmetric. 3 Oblique
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**PLM Analysis Worksheet** 11/14/97 Client **Ecology & Environment** Logged TAT 1 Day 11550 New Castle Avenue Date/Time Due 11/17/97 9 30 AM Address Baton Rouge LA 70816 Special Handling Billing Number Fax (504) 363 - 4732 IN971665 Project **WESTBANK ASBESTOS** Non Fibrous Asbestos Results Fibrous **Appearance** Treatment Optical Properties 1 Brown 6 Vалоиs 1 Fibrous 1 Homogeneous Teased Chrysottle Cellulose 1 Quartz 2 Grey 7 Black 2 Non-Fibrous 2 Heterogeneous 2 Crushed 3 Dissolved Amosite Anthophyllite Glass 2 Mica Min Wool 3 Gypsum 3 Tan 4 White 8 Silver 3 Other 3 Other 4 Ashed Tremolite Synthetic 4 Cal Carbonate 9 Blue 4 Layers (#) 5 Actinolite 6 Crocidolite 0 Orange 5 Matrix 6 Perlite 5 Red 5 Other Wollastonite 0 None Detected **Fibrous** Non Fibrous Layers % ASBESTOS Туре Туре % Sample Location Appearance Treatment 54 WBS15766U1 154 10 6-02 2 6-03 54 70 2 605 154 4 606 70

Analyst .	AllinDate		D	Pate
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## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53 (11/96)

6- 08960

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera **Ecology & Environment**11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday November 18 1997

Ref Number IN971680

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

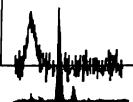
### **Project WESTBANK ASBESTOS**

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBESTOS</u> % TYPE	<u>NONASE</u> % FIBROUS	<u>BESTOS</u> % NONFIBROUS
WBS1531G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		80% Quartz 20% Other
WBS392G01	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS392G02	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS392G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS392G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS1600G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		40% Quartz 60% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst Approved Signatory



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Ecology & Environment
11550 New Castle Avenue
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Tuesday November 18 1997

Ref Number IN971680

## POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

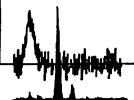
			SAMPLE	ASBE	<u>stos</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1600G02	b) (6)	Brown Non Fibrous Homogeneous	Crushed	Non	ne Detected				Quartz Other
WBS1600G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr < 1% Cro	-				Quartz Other
WBS1600G04		Brown Non Fibrous Homogeneous	Crushed	Non	e Detected	1			Quartz Other
WBS1600G05		Brown Non Fibrous Homogeneous	Crushed	2% Chr	ysotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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Jane Wasılewskı Analyst

Approved Signatory



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OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53

Green to Report Yellow Returns with Warrant

6-08961

Client	Ecology & I	Environme	nt		Logged	11/17/97		TAT	1 Day			
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										IN9716	80	
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday November 19 199

Ref Number IN971696

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBESTOS</u> % TYPE	<u>NONASE</u> % FIBROUS	BESTOS % NONFIBROUS
WBS1247G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS1247G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS1537G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS1587G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS1580G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		40% Quartz 60% Other
WBS1580G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		40% Quartz 60% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory

Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Arialysis performed by EMSL of Indianapolic (NVLAP Air and Bulk #200188-0)



6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera **Ecology & Environment**11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday November 19 199

Ref Number IN971696

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

			SAMPLE	<u>ASBE</u>	STOS		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	<b>APPEARANCE</b>	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1580G03	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro					Quartz Other
WBS1580G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Chi < 1% Cro	-	_			Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst Approved Signatory



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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Chris Sansome

Ecology & Environment

11550 New Castle Avenue
Baton Rouge LA 70816

Friday November 21 1997

Ref Number IN971717

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

			SAMPLE	ASBE	<u>STOS</u>		NONASB	<b>ESTOS</b>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1576G01	b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous							
WBS1576G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	-				Other
		Homogeneous							
WBS180PHII G		Brown	Crushed	2% Ch	rysotile			77%	Quartz
01		Non Fibrous		1	cidolite			20%	Other
<b>/</b> 1		Homogeneous				ļ			
WBS1453/1584		Brown	Crushed	No	ne Detected			80%	Quartz
G01		Non Fibrous						20%	Other
		Homogeneous							
WBS1453/1584		Brown	Crushed	1% Chi	rysotile			78%	Quartz
G02		Non Fibrous		1% Cro	cidolite			20%	Other
		Homogeneous							
WBS1453/1584		Brown	Crushed	Noi	ne Detected			80%	Quartz
G03		Non Fibrous						20%	Other
		Homogeneous							Į.

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Museut3 Phillips
Margaret Phillips
Analyst

Approved Signatory



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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Chris Sansome

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Friday November 21 1997

Ref Number IN971717

## POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

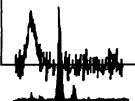
			SAMPLE	<u>ASBESTOS</u>		<u>NONASBI</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1453/1584	(b) (6)	Brown	Crushed	< 1% Chrysotile			80%	Quartz
G04		Non Fibrous Homogeneous		< 1% Crocidolite			20%	Other
WB\$1250G01		Brown	Crushed	2% Chrysotile			78%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite			20%	Other
WBS1250G02		Brown	Crushed	1% Chrysotile			78%	Quartz
		Non Fibrous Homogeneous		1% Crocidolite	į		20%	Other
WBS1250G03		Brown	Crushed	1% Chrysotile		-	78%	Quartz
		Non Fibrous Homogeneous		1% Crocidolite			20%	Other
WBS1250G04		Brown	Crushed	< 1% Chrysotile			80%	Quartz
,		Non Fibrous Homogeneous		< 1% Crocidolite			20%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Anglyst

Approved Signatory



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ENVIRONMENTAL PROTECTION AGENCY

## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53 (11/96) 6- (18962

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera **Ecology & Environment**11550 New Castle Avenue
Baton Rouge LA 70816

\_\_\_\_\_

Monday November 24 1997

**REC'D DEC** 1 1997

Ref Number IN971719

## POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS**

			SAMPLE	ASBE	STOS		NONASB	<u>ESTOS</u>		
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROU	;
WBS1250G05	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz	7
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other	
WBS1250G06	_	Brown	Crushed	< 1% Ch	rysotile	<del>-</del>	-	80%	Quartz	-
		Non Fibrous Homogeneous		< 1% Cro	ocidolite	1		20%	Other	1
WB\$1592G01		Brown	Crushed	3% Ch	rysotile			76%	Quartz	7
		Non Fibrous Homogeneous		1% Cro	ocidolite	[		20%	Other	
WBS1592G02	_a	Brown	Crushed	< 1% Chi	rysotile			80%	Quartz	
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other	
WBS1592G03		Brown Non Fibrous Homogeneous	Crushed	Noi	ne Detected				Quartz Other	7
WBS1598G01		Brown Non Fibrous Homogeneous	Crushed	2% Chi < 1% Cro	*				Quartz Other	

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

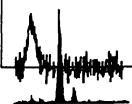
Margaret Phillips

Margaret Phillips Analyst A will

Approved Signatory

Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188.0).



6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera **Ecology & Environment**11550 New Castle Avenue
Baton Rouge LA 70816

Monday November 24 1997

Ref Number IN971719

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

			SAMPLE	<b>ASBESTOS</b>		NONASBI	<u>ESTOS</u>	l
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS1598G02	(b) (6)	Brown	Crushed	< 1% Chrysotile	_	-	40%	Quartz
 		Non Fibrous Homogeneous		< 1% Crocidolite			60%	Other
WBS1598G03		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite			60%	Other
WBS1598G04		Brown	Crushed	< 1% Chrysotile			40%	Quartz
WB31336604		Non Fibrous Homogeneous					60%	Other
WBS1598G05		Brown	Crushed	< 1% Chrysotile		_	40%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite	1		60%	Other
WBS1598G06		Brown	Crushed	< 1% Crocidolite	-,	-	40%	Quartz
		Non Fibrous Homogeneous					60%	Other
WBS1598G07		Brown	Crushed	None Detected			40%	Quartz
		Non Fibrous Homogeneous					60%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margretz Filly

Margaret Phillips Analyst Ause

Approved Signatory

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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Monday November 24 1997

Ref Number IN971719

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

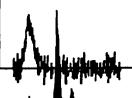
			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1603G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Cr < 1% Cr	nrysotile rocidolite				o Quartz o Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips Analyst A and

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0).

ENVIRONMENTAL PROTECTION AGENCY

## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53

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Analyst Maynet 3. Phillips Date 11/24/97 Computer Deb Statt Date 11/24/97

11/21/97 **Ecology & Environment** Logged TAT 1 Day Client 11550 New Castle Avenue Date/Time Due 11/24/97 9 40 AM **Address** Baton Rouge LA 70816 **Special Handling** Billing Number Fax (504) 363 - 4732 IN971719 Project **WESTBANK ASBESTOS** Non Fibrous Asbestos Results **Fibrous** Optical Appearance Treatment l Quartz 2 Mica **Properties** 1 Cellulose 6 Vanous I Fibrous Homogeneous Teased Chrysottle 7 Black 2 Non-Fibrous 3 Other 2 Crushed 3 Dissolved 4 Ashed 2 Amoste Glass 2 Grey Heterogeneous Anthophyllite Min Wool 3 Gypsum 3 Tan 4 White 8 Silver Other 4 Synthetic 5 Other 9 Blue Layers (#) Tremolite 4 Cal Carbonate 0 Orange 5 Matrix Acunolite 6 Perlite Wollastonite Crocidolite 0 None Detected Haır Other **Fibrous** Non Fibrous Layers % ASBESTOS Sample Location Appearance Treatment Туре Type % 30 WBS 1592 603 М S E P 153# ٦ 30 154 Y WBS 15986-01 40 154 6() 40 154 41 6-03 60 46 J 60 GUL 154 4 40 405 60 6-<1 70 40 171 ょ 406 60 Ε М В Ε Temputer Del Still Date Analyst

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Client	Ecology &	Environme	nt		Logged	11/21	/97			TAT	1 Day				
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EMSL Analytical Inc. 6330 E 75th St. Suite 152 Indianapolis, IN 46250

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera **Ecology & Environment**11550 New Castle Avenue
Baton Rouge LA 70816

RECTI DEC 11997

Tuesday November 25 1997

Ref Number IN971728

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBESTOS % TYPE	%	NONASBES FIBROUS		NONFIBROUS
WBS1213G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	None Detected		-		Quartz Other
WBS1213G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		_		Quartz Other
WBS1213G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite			80% ( 20% (	Quartz Other
WBS1213G04		Brown Non Fibrous Homogeneous	Crushed	None Detected	1		80% ( 20% (	Quartz Other

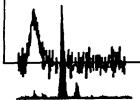
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips

Analyst

Approved Signatory



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OFFICIAL
CHAIN OF CUSTODY RECORD

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EPA 7500-53 (11/96)

**6-** 08964

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday November 26 1997

Ref Number IN971740

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

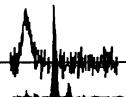
#### **Project WESTBANK ASBESTOS**

, •			SAMPLE	<u>ASBESTOS</u>	NONAS	BESTOS
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	% FIBROUS	% NONFIBROUS
WBS1369G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Chrysotile		40% Quartz 58% Other
WBS1369G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		40% Quartz 60% Other
WBS1369G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		70% Quartz 30% Other
WBS1532G01		Brown Non Fibrous Homogeneous	Crushed	None Detected		70% Quartz 30% Other
WBS1532G02		Brown Non Fibrous Homogeneous	Crushed	None Detected		70% Quartz 30% Other
WBS1532G03		Brown Non Fibrous Homogeneous	Crushed	None Detected		70% Quartz 30% Other
		_	L			

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst Approved ()
Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test most be test by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All INVLAP reports must not NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

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Wednesday November 26 1997

Ref Number IN971740

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

			SAMPLE	ASBES	<u>stos</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1532G04	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	Non	e Detected		_		Quartz Other
WBS1317 G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chry	_ ysotile	- 			Quartz Other
WBS1447G01		Brown Non Fibrous Homogeneous	Crushed	Non	e Detected	-			Quartz Other
WBS1447G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chry	ysotile				Quartz Other
WBS1447G02		Brown  Non Fibrous  Homogeneous	Crushed	< 1% Chry	 /sotile				Quartz Other
WBS1447G04		Brown Non Fibrous Homogeneous	Crushed	- < 1% Chry	/sotile	1			Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved<sup>1</sup>
Signatory

A HAMMAN

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Ecology & Environment
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Baton Rouge LA 70816

Wednesday November 26 1997

Ref Number IN971740

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS**

l			SAMPLE	<u>ASB</u>	ESTOS		NONASB	ESTOS
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	% NONFIBROUS
WBS707G01	(b) (6)	Brown	Crushed	N	one Detected			75% Quartz
		Non Fibrous						25% Other
	' 	Homogeneous				1		
				] _		L		

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved ( Signatory



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Analysis performed by EMSL of Indianapolis (NIVLAP Air and Bulk #200188.0).

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ENVIRONMENTAL PROTECTION AGENCY

## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53 (11/96)

Green to Report Yellow Returns with Warrant

**6**- 08968

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera

Ecology & Environment

11550 New Castle Avenue
Baton Rouge LA 70816

Monday December 01 1997

Ref Number IN971756

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### Project WESTBANK ASBESTOS PROJ# 020601RAG1

			SAMPLE	<u>ASBESTOS</u> % TYPE	% F	NONASBESTOS	NONFIBROUS
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% IYPE	% F		
WBS1570G01	(b) (b)	Brown	Crushed	< 1% Chrysotile			Quartz
		Non Fibrous				20%	Other
		Homogeneous					
WBS1524G01	_	Brown	Crushed	1% Chrysotile		78%	Quartz
		Non Fibrous	Gracinoa	1% Crocidolite		20%	Other
		Homogeneous					
WBS1524G02		Brown	Crushed	None Detected	<del></del>	80%	Quartz
VVBS1524G02			Crusnea	None Detected	·		Other
		Non Fibrous Heterogeneous			j	2070	Other
				<u> </u>			
WBS1524G03	_	Brown	Crushed	< 1% Chrysotile			Quartz
		Non Fibrous		< 1% Crocidolite		20%	Other
		Homogeneous					
WBS1524G04		Brown	Crushed	None Detected		80%	Quartz
		Non Fibrous					Other
		Homogeneous					
WBS1594G01		Brown	Crushed	< 1% Chrysotile		80%	Quartz
1.50.004001		Non Fibrous	Orustieu	- 170 Omysould			Other
		Homogeneous			ì	2070	

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\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips Analyst

Approved Signatory

A At Andreway

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Monday December 01 1997

Ref Number IN971756

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### Project WESTBANK ASBESTOS PROJ# 020601RAG1

			SAMPLE	ASBEST	ros		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1447G05	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys	otile				Quartz Other
WBS1447G06		Brown Non Fibrous Homogeneous	Crushed	None	Detected				Quartz Other
WBS1532G05		Brown Non Fibrous Homogeneous	Crushed	2% Chrys	otile				Quartz Other
WBS1532G06		Brown Non Fibrous Homogeneous	Crushed	2% Chrys < 1% Crock					Quartz Other
WBS1532G07		Brown Non Fibrous Homogeneous	Crushed	None	Detected				Quartz Other
WBS1532G08		Brown Non Fibrous Homogeneous	Crushed	2% Chrys < 1% Crock					Quartz Other

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Margaret Phillips

argaret Phillips Analyst Approved Signatory

W. Walnuth

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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		pearance		Treatment	Asbestos Results	Fibrous	Non Fibrous	Optical
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INVISEMBATION FINANCE

## OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53 (11/96)

6-08970

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894

Wednesday December 03 199

Attn Alma Rillera

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Ref Number IN971786

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS REMOVAL**

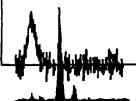
			SAMPLE	ASBES	TOS		NONASB	<b>ESTOS</b>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1524G05	(b) (6)	Brown	Crushed	< 1% Chry	sotile			80%	Quartz
	_	Non Fibrous Homogeneous		< 1% Croc	idolite			20%	Other
WBS1524G06		Brown Non Fibrous Homogeneous	Crushed	None	e Detected				Quartz Other
WBS1532G09		Brown Non Fibrous Homogeneous	Crushed	2% Chrys < 1% Crock					Quartz Other
WBS1532G10		Brown Non Fibrous Homogeneous	Crushed	2% Chrys < 1% Crock					Quartz Other
WBS1532G11		Brown Non Fibrous Homogeneous	Crushed	2% Chrys	sotile				Quartz Other
WBS1532G12		Brown Non Fibrous Homogeneous	Crushed	3% Chrys	sotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Marguet & Phillips

Margaret Phillips Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

1

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Alma Rillera **Ecology & Environment**11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday December 03 19

Ref Number IN971786

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### **Project WESTBANK ASBESTOS REMOVAL**

			SAMPLE	<u>ASBESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPI	≣ %	<b>FIBROUS</b>	%	NONFIBROUS
WBS1532G13	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	10% Chrysotile < 1% Crocidolite				Quartz Other
WBS1581G01		Brown Non Fibrous Homogeneous	Crushed	None Detec	ted			Quartz Other
WBS1581G02		Brown Non Fibrous Homogeneous	Crushed	None Detec	ted			Quartz Other
WBS1581G03		Brown Non Fibrous Homogeneous	Crushed	None Detec	ted			Quartz Other

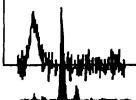
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips

**Analyst** 

Approved Signatory



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OFFICIAL
CHAIN OF CUSTODY RECORD

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EPA 7500-53

Green to Report Yellow Returns with Warrant

6- 08969

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		Appearance		Treatment	Asbestos Result	ts	Fibro	us	! Non I	Fibrous		Opti	cal
Brown Crey Tan White Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	Homogeneous Heterogeneous Other Layers (#)	2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophylite 4 Tremolite 5 Actinolite 6 Crocidolite	2 3 4 5	Cellulose Glass Min Wool Synthetic Other Wollastonite		1 Quartz 2 Mica 3 Gypsum 4 Cal Cai 5 Matrix 6 Perlite			Prope	
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894 EMSL 04 1997

Attn Chris Dansome

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday December 04 1997

Ref Number IN971806

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### **Project WESTBANK ASBESTOS PROJECT**

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBES</u> %	TOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS1048G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Chrys	sotile				6 Quartz 6 Other
WBS1048G02		Brown Non Fibrous Homogeneous	Crushed	3% Chrys	sotile				6 Quartz 6 Other
WBS1563G01	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys < 1% Crock					6 Quartz 6 Other
WBS1572G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys	otile				6 Quartz 6 Other
WBS1752G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys	otile				6 Quartz 6 Other
WBS1572G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrys	otile				6 Quartz 6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips

Approved Signatory

Analyst

Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor titles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0).



6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Chris Dansome

Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Thursday December 04 1997

Ref Number IN971806

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### Project WESTBANK ASBESTOS PROJECT

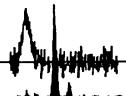
			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE See 3126198	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	% NC	NFIBROUS
WB61752C04 WB51572G04	) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Ct	irysotile			78% Qu 20% Ot	
WBS1167G01		Brown Non Fibrous Homogeneous	Crushed	ı	rysotile ocidolite			78% Qu 20% Ot	i

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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Margaret Phillips
Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (IVVI AP.Air and Bulk #200188-0)

First International Bidg , 1201 Elm St Dallas, Texas 75270

**CHAIN OF CUSTODY RECORD** PROJ NO PROJECT NAME Vestbank Asbestos Project NO AMPLERS (Signature) OF REMARKS Domeno CON **TAINERS** COMP DATE TIME STATION LOCATION STA NO EPA TAG # WEGICHE 6-165732 X 12 Z 1050 1861048 6-165733 1450 WBS1563 6-165734 1520 6-165735 6-165736 1525 6-165-737 1530 UBS 1572 4-115737 MBS1167 559 6-165800 601 Received by (Signature) 12/3/1 Date / Time Relinquished by (Signature) Received by (Signature) Relinquished by (Signature) Date / Time 30 Date / Time Relinquished by (Signature) Received by (Signature) Received by (Signature) Relinquished by (Signature) Date / Time Relinquished by (Signature) Date / Time Received for Laboratory by Date / Time Remarks (Signature) Distribution Original Accompanies Shipment Copy to Coordinator Field Files

Client \* Ecology & Environment

Logged 12/3/97

TAT 1 Day

Address

11550 New Castle Avenue

Baton Rouge LA 70816

Date/Time Due 12/4/97

9 00 AM

Fax (50

(504) 363 4732

Special Handling

Billing Number

IN971806

Project WESTBANK ASBESTOS PROJECT

	Ap	pearance		Treatment	Asbestos Results	Fibrous	Non Fibrous	7	Optical	
Brown Grey Tan White Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	3 Other	3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	Cellulose     Cilass     Min Wool     Synthetic     Other     Wollastonite     Hair	1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite 7 Other	· · · · · · · · · · · · · · · · · · ·	Properties	
Sam	nle	Location	Appearance	Treatment	% ASBESTOS	Fibrous Type %	Non Fibrous Type   %	# Layers	7 Year 1 Low 1 Parallel Symmetr 3 H gh 3 (20loque	<b>k</b>
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Analyst Maynet & Phillips Date 12/4/97 Computer 1st Date 12/

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Chris Sansome

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Friday December 05 1997

Ref Number IN971829

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### Project WESTBANK ASBESTOS REMOVAL PROJECT

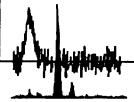
			SAMPLE	<u>ASBESTOS</u>		<u>NONASBES</u>	<u>TOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS1416 G01	b) (6)	Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous	}	< 1% Crocidolite			60%	Other
		Homogeneous						
WBS1571G01		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous		< 1% Crocidolite			60%	Other
		Homogeneous						
WBS1571G02		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous					60%	Other
		Homogeneous						
WBS1571G03		Brown	Crushed	< 1% Chrysotile	1		40%	Quartz
		Non Fibrous		< 1% Crocidolite			60%	Other
		Homogeneous			1			
WBS1567G01		Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous					60%	Other
		Homogeneous						
WBS1567G02		Brown	Crushed	2% Chrysotile			40%	Quartz
		Non Fibrous					58%	Other
		Homogeneous						

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

ane Wasılewskı Analyst

Approved Signatory



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Ecology & Environment

11550 New Castle Avenue

Baton Rouge LA 70816

Friday December 05 1997

Ref Number IN971829

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

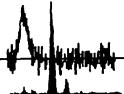
### Project WESTBANK ASBESTOS REMOVAL PROJECT

			SAMPLE	ASBES	STOS		NONASB	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1567G03	b) (6)	Brown	Crushed	None	Detected	1		60%	6 Quartz
		Non Fibrous Homogeneous						40%	6 Other
WBS1567G04		Brown	Crushed	< 1% Chry	sotile	1		70%	ố Quartz
		Non Fibrous						30%	6 Other
		Homogeneous				İ			
900 3/26/98 WB615707005	o) (6)	Brown	Crushed	None	e Detected			70%	ó Quartz
M821267602		Non Fibrous Homogeneous						30%	6 Other
SERD 3/26/9						<u> </u>			
WBS1568G00	0) (6)	Brown	Crushed	None	Detected			70%	Quartz
W851567606		Non Fibrous						30%	6 Other
		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst Approved Signatory



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First International Bldg 1201 Elm St

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Attn Chris Sansome

Ecology & Environment

11550 New Castle Avenue
Suite 250

Baton Rouge LA 70816

Tuesday December 09 1997

Ref Number IN971848

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

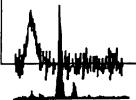
Project Westbank Asbestos Proj#020601

			SAMPLE	ASBE	STOS				
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS1619G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous						60%	Other
		Homogeneous							
WBS1572G05		Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous				1		60%	Other
		Homogeneous							
WBS1572G06	_	Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous						60%	Other
		Homogeneous							
WBS127G01		Brown	Crushed	< 1% Ch	rysotile			70%	Quartz
		Non Fibrous		< 1% Cro	cidolite	1		30%	Other
		Homogeneous							
WBS127G02		Brown	Crushed	< 1% Ch	rysotile			70%	Quartz
		Non Fibrous		< 1% Cro	cidolite			30%	Other
		Homogeneous							
WBS127G03		Brown	Crushed	< 1% Ch	ysotile			70%	Quartz
		Non Fibrous	1	1		1		30%	Other
	1	Homogeneous		•		1			
			<u> </u>						

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

\* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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1

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### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### Project Westbank Asbestos Proj#020601

			SAMPLE	ASB	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	<b>FIBROUS</b>	%	NONFIBROUS
WBS127G04	-(b) (6)	Brown Non Fibrous Homogeneous	Crushed		irysotile ocidolite				Quartz Other
WBS127G05		Brown Non Fibrous Homogeneous	Crushed		rysotile ocidolite				Quartz Other

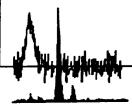
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**Analyst** 

Approved Signatory



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2

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200100-0)

REGION 6
First International Bidg 1201 Elm St

**CHAIN OF CUSTODY RECORD** Dallas Texas 75270 PROJ NO **PROJECT NAME** WESTRANK ASBESTUS NO SAMPLERS (\$ignature) OF REMARKS CON **TAINERS** TIME STATION LOCATION STA NO DATE 1997 W851619 6-165749 1015 WBS 1572 1415 6-165750 6-165751 1490 MBZj9J 1530 WBSIZZ 6-165754 1535 WBSIZZ 6-165755 1540 43 MBS197 1535 1504 NBS127 1540 Relinquished by (Signature) Date / Time Received by (Signature) Received by (Signature) Relinquished by (Signature) Date / Time Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received for Laboratory by Date / Time Remarks (Signature) Distribution Original Accompanies Shipment Copy to Coordinator Field Files

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Attn Chris Sansome

Ecology & Environment

11550 New Castle Avenue
Baton Rouge LA 70816

RECD DEC 1 5 1997

Tuesday December 09 1997

Ref Number IN971871

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

### Project ProJ#020601 Westbank Asbestos Removal

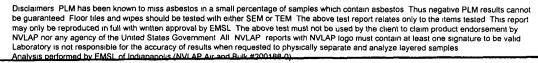
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBESTOS % TYPE	%	<u>NONASB</u> FIBROUS	<u>ESTOS</u> % NONFIBROUS
WBS1621G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite			40% Quartz 60% Other
WBS1621G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite			40% Quartz 60% Other
WBS1599G01		Brown Non Fibrous Homogeneous	Crushed	None Detected			80% Quartz 20% Other
WBS1599G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite			80% Quartz 20% Other
WBS1599G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite			80% Quartz 20% Other
WBS1562G01		Brown Non Fibrous Homogeneous	Crushed	3% Chrysotile 1% Crocidolite			40% Quartz 56% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

áne Wasılewskı Analyst

Approved Signatory





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Attn Chris Sansome

Ecology & Environment
11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday December 09 1997

Ref Number IN971871

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

#### Project ProJ#020601 Westbank Asbestos Removal

			SAMPLE	<u>ASBESTOS</u>		NONASBES	TOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS1604G01	(b) (6)	Brown	Crushed	2% Chrysotile			50%	Quartz
		Non Fibrous Homogeneous		1% Crocidolite			47%	Other
WBS1604G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1604G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1604G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1604G05		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other
WBS1604G06		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other

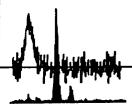
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Jane Wasılewskı

Analyst

Approved Signatory



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Baton Rouge LA 70816

Tuesday December 09 1997

Ref Number IN971871

### POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method\*

Project ProJ#020601 Westbank Asbestos Removal

			SAMPLE	ASBI	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	i
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1604G07	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			20%	Quartz
		Non Fibrous				1		80%	Other
		Homogeneous							
WBS1604G08		Brown	Crushed	2% Ch	rysotile			20%	Quartz
		Non Fibrous	0.4000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Other
		Homogeneous							
WBS1604G09		Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous	O do no d	,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Other
		Homogeneous							
WBS1623G01		Brown	Crushed	< 1% Ch	rysotile			40%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			60%	Other
		Homogeneous							
WBS1623G02		Brown	Crushed	< 1% Ch	rysotile			20%	Quartz
		Non Fibrous			•				Other
		Homogeneous							
WBS1474G01		Brown	Crushed	No	ne Detected			40%	Quartz
		Non Fibrous						60%	Other
		Homogeneous							

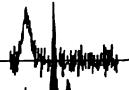
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REGION 6
First International Bidg 1201 Elm St

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REGION 6

Office of Enforcement First International Bldg , 1201 Elm St CHAIN OF CUSTODY RECORD Dallas, Texas 75270 PROJ NO PROJECT NAME Westbank Asbestos Pamour NO SAMPLERS, (Signature) OF NIO REMARKS CON TAINERS STATION LOCATION STA NO TIME DATE EPA TAG # W136164 U855 601 wi351621 8855 WB\$1544 0930 601 WB31544 0435 (+d)2 14351594 0435 1-63 1000 1346 ~361604 1343 (50) 143 NBH 104 1851674 1351 (5164 NESIGN mBS 160 WBSILVY 1359 WBSION Relinquished by (Signature) Relinquished by (Signeture) Date / Time Received by (Signature) Received by (Signature) Date / Time 1440 Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received for Laboratory by Date / Time Remarks (Signature) Distribution Original Accompanies Shipment Copy to Coordinator Field Files